T08050 "82TS860

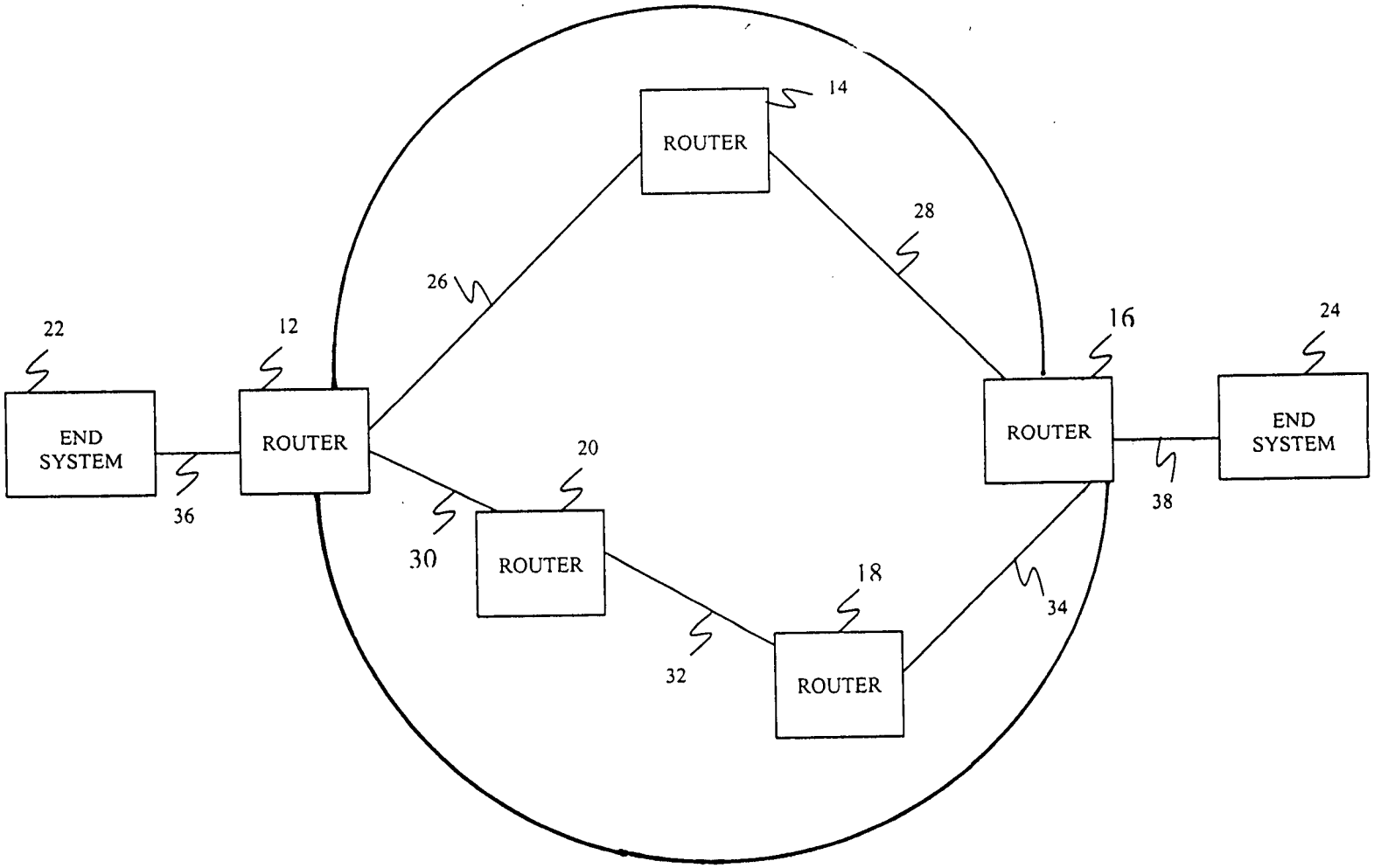

FIG. 1

IDS 1999-0647A
1 of 5

IDS 1999-0647A
2 OF 5

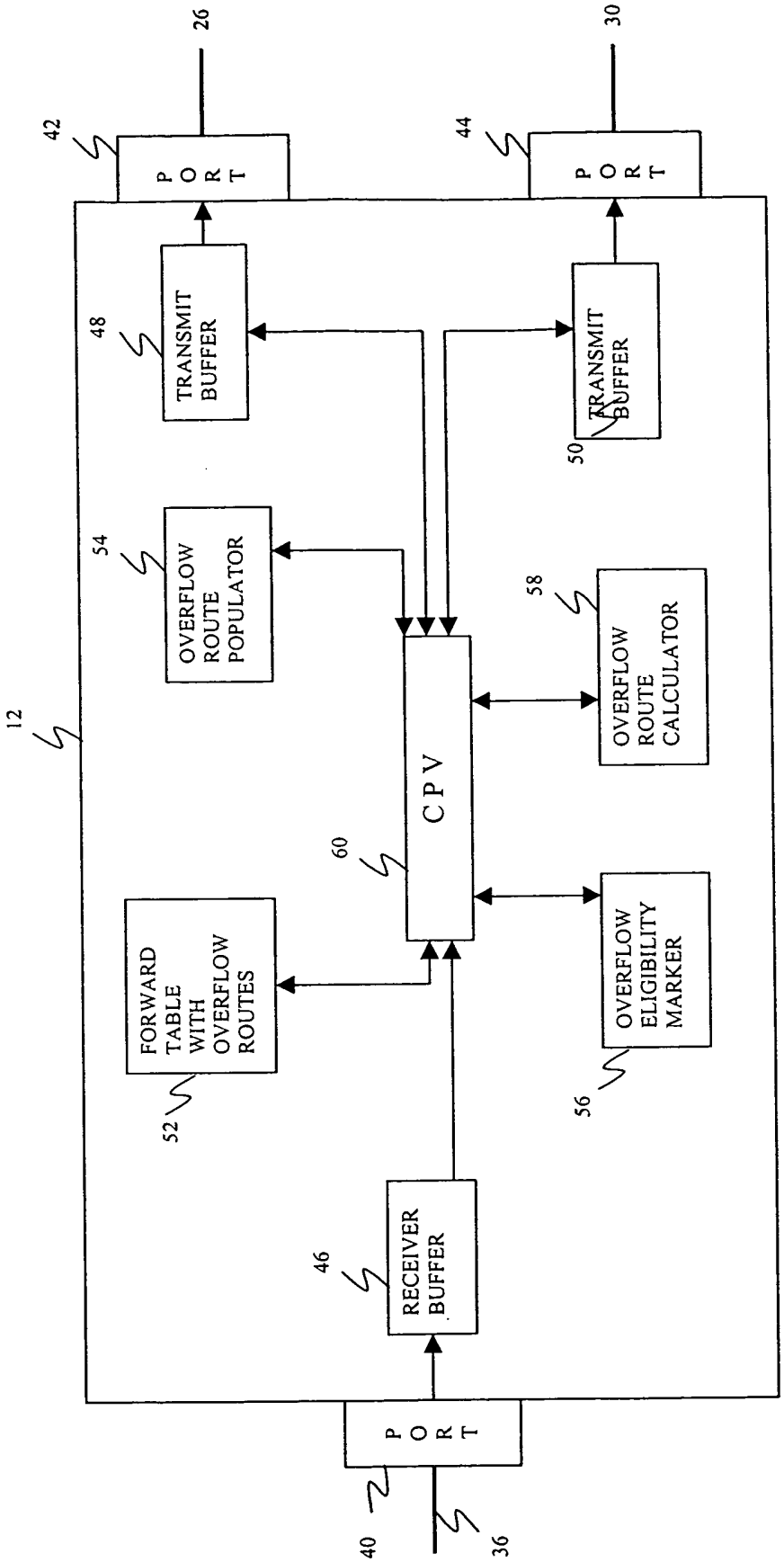

FIG. 2.

SOURCE PORT ID	SOURCE IP ADDRESS	DESTINATION IP ADDRESS	DESTINATION PORT ID	(PRIMARY) NEXT HOP PORT ID	OVERFLOW NEXT HOP PORT ID
P1	A1	B1	Q1	42	44
P2	A2	B1	Q1	42	-
P2	A2	B1	Q2	42	44
P1	A1	B2	Q3	44	42
.	.	.	.	.	.
.	.	.	.	.	.

FIG. 3

09054200 - 050604

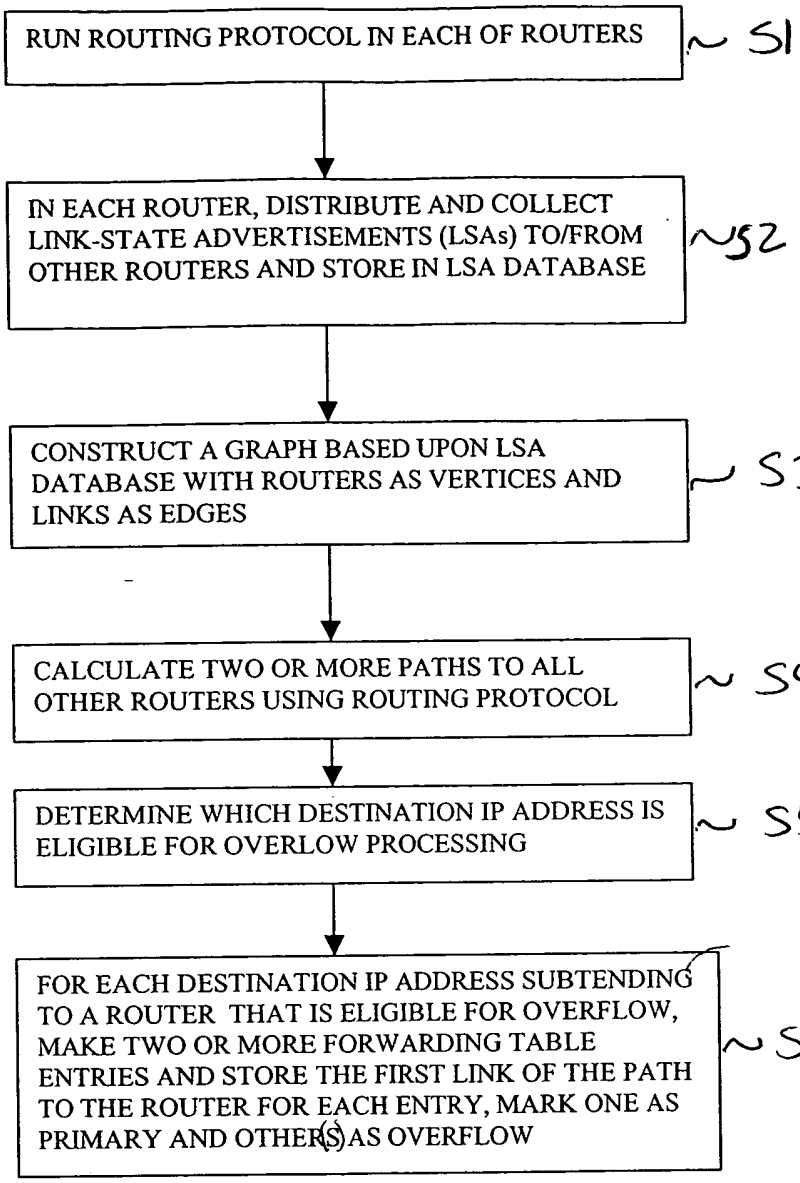
RUN ROUTING PROTOCOL IN EACH OF ROUTERS
S1
IN EACH ROUTER, DISTRIBUTE AND COLLECT LINK-STATE ADVERTISEMENTS (LSAs) TO/FROM OTHER ROUTERS AND STORE IN LSA DATABASE
S2
CONSTRUCT A GRAPH BASED UPON LSA DATABASE WITH ROUTERS AS VERTICES AND LINKS AS EDGES
S3
CALCULATE TWO OR MORE PATHS TO ALL OTHER ROUTERS USING ROUTING PROTOCOL
S4
DETERMINE WHICH DESTINATION IP ADDRESS IS ELIGIBLE FOR OVERLOW PROCESSING
S5
FOR EACH DESTINATION IP ADDRESS SUBTENDING TO A ROUTER THAT IS ELIGIBLE FOR OVERFLOW, MAKE TWO OR MORE FORWARDING TABLE ENTRIES AND STORE THE FIRST LINK OF THE PATH TO THE ROUTER FOR EACH ENTRY, MARK ONE AS PRIMARY AND OTHER(S) AS OVERFLOW
S6

FIG. 4

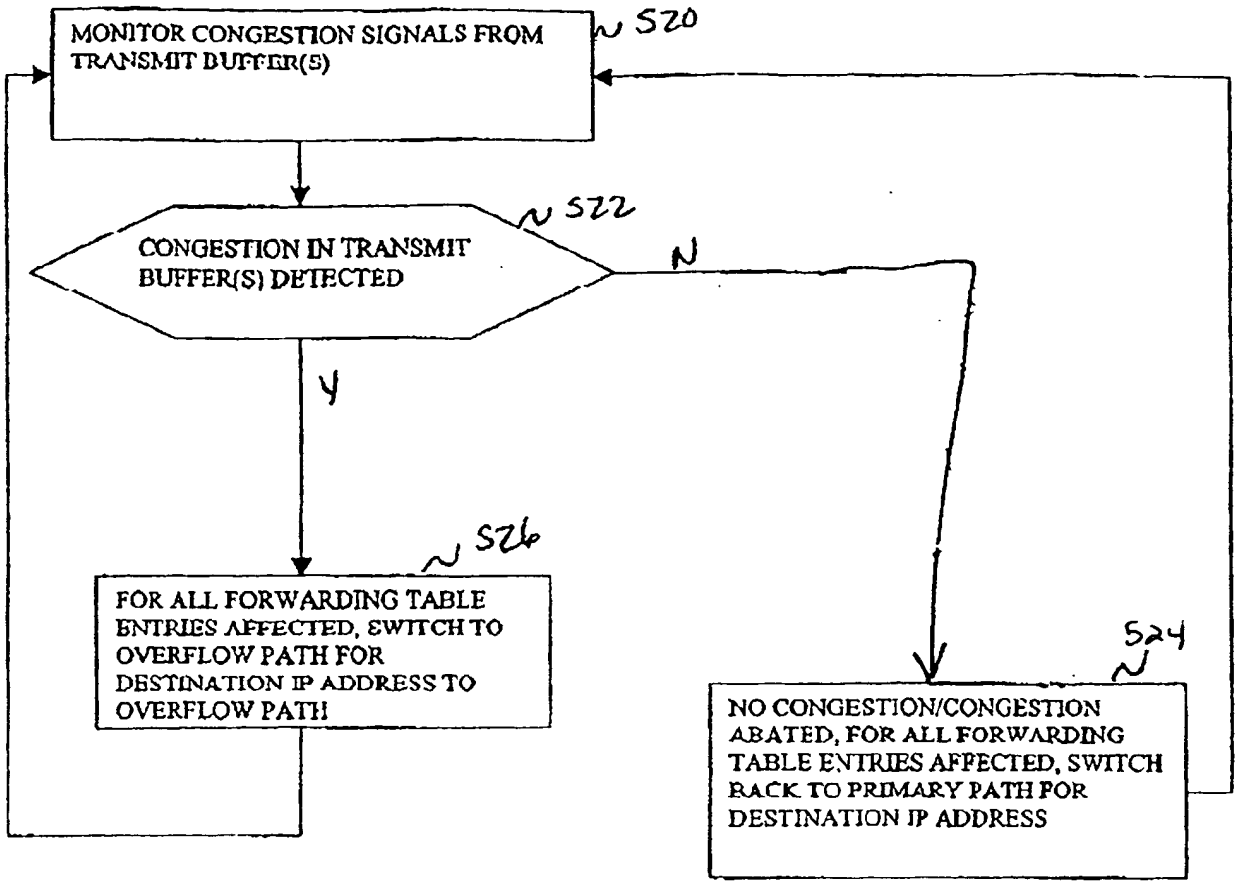

FIG. 5

09654203 - 090999